# DATA ITEM DESCRIPTION

*FORM APPROVAL*
*OMB NO 0704-0188*

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| 1. TITLE  Explosives Siting Plan | 2. IDENTIFICATION NUMBER   OE-005-04 |

3. DESCRIPTION / PURPOSE   To provide explosives safety criteria for planning and siting explosives operations at Ordnance and Explosives (OE) sites.

| 4. APPROVAL DATE (YYMMDD)   000303 | 5. OFFICE OF PRIMARY RESPONSIBILITY   CEHNC-OE-CX | 6a. DTIC APPLICABLE | 6b. GIDEP APPLICABLE |
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7. APPLICATION / INTERRELATIONSHIP:  This Data Item Description contains instructions for preparing a work plan chapter to address explosives siting procedures.

| 8. APPROVAL LIMITATION | 9a. APPLICABLE FORMS | 9b. AMSC NUMBER |
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10. PREPARATION INSTRUCTIONS:

10.1  The contractor shall, when required by the government, submit an explosives siting plan which describes the safety criteria to be employed during OE operations.

10.2  The following explosives operations shall be described in the plan and sited on the Q-D map.

10.2.1  Ordnance and Explosives Areas

10.2.1.1  Minimum separation distances for nonessential personnel, during OE operations, at an OE site shall be determined using the following criteria:  distances in Chapter 5, paragraph C5.5.4, DOD 6055.9 STD, if the type of OE is unknown; the maximum fragmentation distance for the Most Probable Munition (MPM), as calculated by Huntsville Center's Engineering Directorate, Structural Branch; or when conditions and OE hazards permit, the minimum separation distance may be reduced to fit the situation, but in no case shall the distance be less than $1/600$ ft$^2$, 200 ft, or the K50 based on over pressure, whichever is greater. The information on which distance to be used will be furnished by the District Project Manager along with the calculation sheet determining the fragmentation distance.  The distance shall be explained in text of the plan, and Quantity Distance Arcs drawn on the map.  Q-D Arcs shall be drawn from the outermost edge of the OE area.

10.2.1.2  Planned or Established Demolition Areas.  These areas shall be sited and shown on the map.  Minimum separation distance for all personnel shall be established based on the following criteria:  distances in Chapter 5, paragraph C5.5.4, DOD 6055.9-STD; or the maximum fragmentation distance for the MPM at the site calculated by Huntsville Center's Engineering Directorate, Structural Branch.  The safe separation distance shall be explained in the plan and the distance arcs drawn on the map.

10.3 Foot Print Areas.  The following footprint areas shall be addressed in the plan but do not have to be shown on the map.

10.3.1  Blow-in-Place.  Minimum separation distance for all personnel shall be determined using the criteria for established demolition areas.

10.3.2  Collection Points.  Collection points, if used, shall have the same minimum separation distance as the MPM for the site.

10.3.3  In-Grid Consolidated Shots.  Minimum separation distance for all personnel shall be determined using the criteria for established demolition areas.  The contractor shall use the USAESCH procedures, approved by DDESB, for consolidate shots. These procedures may be downloaded from the USAESCH OE Home Page.

11. DISTRIBUTION STATEMENT

**DD Form 1664, JUN 86**          *PREVIOUS EDITIONS ARE OBSOLETE*

Data Item Description OE-005-04 (Continued):

10.4  Explosives Storage Magazines

      10.4.1  Specify the type(s) of magazines used: commercial portable type, above ground, shed, earth-covered, etc.

      10.4.2  State the Net Explosives Weight (NEW) and hazard division to be stored in each magazine.  Generally, recovered OE is considered HD 1.1 unless there are obvious reasons it should not be.

      10.4.3  Quantity Distance criteria specified in Chapter 9, Table 9-1, DOD 6055.9-STD shall be used to site the magazines at an Ordnance and Explosives site.

      10.4.4  Specify design criteria for any engineering controls to be used to mitigate exposures to the public when required Quantity Distances cannot be met.

10.5  Site Map.  The site map should be scaled at 1 inch equals 400 feet.  A smaller scale is acceptable if distances can be accurately shown.  If an unscaled map is used, the map must have labeled distances.